

Recovery Plan Action Status

Plan Name: Draft Revision, Leopard Darter Recovery Plan

Plan Status: Draft Revision 1

Plan Date: 03-May-93

Lead Agency: USFWS

Lead Office: Oklahoma Ecological Services Field Office

(918)

581-7458)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Leopard darter (Percina pantherina)	1	1.1	Deauthorize Lukfata Reservoir	Complete			Corps of Engineers	Other	Labor type not yet selected	
Leopard darter (Percina pantherina)	1	1.21	Glover River protection plan	Ongoing Current			Weyerhaeuser Corporation, Inc., U.S. Environmental Protection Agency, U.S. Forest Service, Oklahoma Department of Wildlife Conservation , Corps of Engineers, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Oklahoma Scenic Rivers Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	2010 Fish passage
Leopard darter (Percina pantherina)	2	1.22	Land ownership map	Partially Complete			Weyerhaeuser Corporation, Inc., Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission, The Nature Conservancy	Management: General, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	

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Leopard darter (Percina pantherina)	2	1.231	Private sector habitat protection - Upper Little River	Ongoing Current			Weyerhaeuser Corporation, Inc., U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Oklahoma State Department of Agriculture, The Nature Conservancy	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	2010 - Fish passage work
Leopard darter (Percina pantherina)	2	1.232	Private sector habitat protection - Robinson Fork River	Not Started			Weyerhaeuser Corporation, Inc., Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission, The Nature Conservancy	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	1.233	Private sector habitat protection - Upper Mountain Fork	Ongoing Current			Weyerhaeuser Corporation, Inc., U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Arkansas Game and Fish Commission, The Nature Conservancy	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	2010 - Fish passage work

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Leopard darter (Percina pantherina)	2	1.234	Private sector habitat protection - tributaries	Not Started			Weyerhaeuser Corporation, Inc., U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, The Nature Conservancy	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	1.24	Complete habitat protection	Not Started			U.S. Forest Service, Oklahoma Department of Wildlife Conservation , Corps of Engineers, Oklahoma Ecological Services Field Office, The Nature Conservancy, Oklahoma Tourism and Recreation Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	1.251	Point source discharge	Ongoing Current			U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Arkansas Department of Pollution Control and Ecology, Oklahoma Ecological Services Field Office, Oklahoma Water Resources Board, Arkansas Game and Fish Commission	Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Environmental Contaminants	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	

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Leopard darter (Percina pantherina)	2	1.252	Non-point source discharge	Ongoing Current			U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Arkansas Department of Pollution Control and Ecology, Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Oklahoma Water Resources Board, Arkansas Game and Fish Commission	Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Environmental Contaminants	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	1.261	Monitor clearcutting	Ongoing Not Current			Weyerhaeuser Corporation, Inc., U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Corps of Engineers, Arkansas Department of Pollution Control and Ecology, Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Arkansas Game and Fish Commission	Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	

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Leopard darter (Percina pantherina)	2	1.262	Evaluate poultry and swine operations	Ongoing Current			U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Arkansas Department of Pollution Control and Ecology, Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Arkansas Game and Fish Commission	Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Volunteer	
Leopard darter (Percina pantherina)	2	1.2621	Determine location, number, ownership, and production of poultry and swine operations	Not Started			Arkansas Department of Pollution Control and Ecology, Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Volunteer	
Leopard darter (Percina pantherina)	2	1.2622	Landowner contact and assistance program	Partially Complete			Oklahoma Department of Wildlife Conservation , Arkansas Department of Pollution Control and Ecology, Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Arkansas Game and Fish Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	

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Leopard darter (Percina pantherina)	3	1.2623	Prepare habitat conservation plan	Not Started			U.S. Environmental Protection Agency, Oklahoma Department of Wildlife Conservation , Arkansas Department of Pollution Control and Ecology, Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Arkansas Game and Fish Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	1.263	Assess impacts of existing stream crossings	Partially Complete			Weyerhaeuser Corporation, Inc., U.S. Federal Highway Administration, U.S. Forest Service, Corps of Engineers, Oklahoma Ecological Services Field Office, Oklahoma Department of Transportation	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	1.264	Monitor compliance with pesticide use restrictions	Ongoing Not Current			U.S. Environmental Protection Agency, Oklahoma Ecological Services Field Office, Oklahoma State Department of Agriculture	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	3	1.265	Determine magnitude of threat from acid rain precipitation	Partially Complete			U.S. Environmental Protection Agency, Oklahoma Ecological Services Field Office	Research: Climate Change, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Habitat Status	Contract, Graduate Student, Species Expert	

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Leopard darter (Percina pantherina)	2	2.1	Determine extent of suitable habitat	Partially Complete			Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission, Oklahoma Natural Heritage Inventory	Research: Habitat Status	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Leopard darter (Percina pantherina)	2	2.2	Determine movement and survivorship patterns	Not Started			Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission, Oklahoma Natural Heritage Inventory	Research: Competition, Research: Demographic Studies, Research: Migration, Research: Predation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	2.3	Permanent Monitoring	Ongoing Current			U.S. Forest Service, Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission	Management: Population Monitoring, Research: Habitat Requirements, Research: Population Assessment, Research: Population Surveys	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	2.4	Assess importance of small tributaries as spawning sites	Not Started			Academic institutions, Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission, Oklahoma Natural Heritage Inventory	Research: Demographic Studies, Research: Ecosystem Studies, Research: Habitat Requirements, Research: Habitat Status	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	

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Leopard darter (Percina pantherina)	3	2.5	Determine distribution, abundance, and extent of habitat on Ouachita National Forest	Partially Complete			U.S. Forest Service, Oklahoma Ecological Services Field Office	Research: Habitat Status	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	1	3.1	Determine genetic variation	Partially Complete			Academic institutions, Oklahoma Ecological Services Field Office	Research: Genetics	Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Leopard darter (Percina pantherina)	2	3.2	Determine minimum viable population size	Not Started			Academic institutions, Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission, Oklahoma Natural Heritage Inventory	Research: Demographic Studies, Research: Genetics	Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Leopard darter (Percina pantherina)	2	4.1	Complete brochure	Partially Complete			Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office	Other: Information and Education	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	2	4.2	Erect displays	Not Started			Arkansas Department of Parks and Tourism , Oklahoma Department of Wildlife Conservation , Corps of Engineers, Oklahoma Ecological Services Field Office, Oklahoma Department of Transportation, Arkansas Game and Fish Commission	Other: Information and Education	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	

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Leopard darter (Percina pantherina)	2	5.1	Re-establish populations in the Cossatot and Robinson Fork Rivers	Not Started			Weyerhaeuser Corporation, Inc., Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission	Management: Planning, Management: Population Monitoring, Management: Propagation, Management: Reintroduction, Research: Management Techniques, Research: Propagation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	3	5.2	Initiate habitat enhancement projects	Ongoing Current			Oklahoma Department of Wildlife Conservation , Corps of Engineers, Oklahoma Ecological Services Field Office, Oklahoma Conservation Commission, Oklahoma Water Resources Board, Arkansas Game and Fish Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	2010 fish passage projects
Leopard darter (Percina pantherina)	3	5.3	Re-establish populations downstream of Gillham Reservoir	Not Started			Corps of Engineers, Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission	Management: Population Monitoring, Management: Propagation, Management: Reintroduction, Research: Propagation, Research: Reintroduction	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Leopard darter (Percina pantherina)	3	6	Develop monitoring plan	Partially Complete			Oklahoma Department of Wildlife Conservation , Oklahoma Ecological Services Field Office, Arkansas Game and Fish Commission	Management: Planning, Management: Population Monitoring, Research: Population Assessment, Research: Population Surveys	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	